

## Claims

1) A pier for supporting a structure, comprising:

5           a pier driven into an earth adjacent to a footer supporting said structure;

          a pier cap stabilizer shaft mounted to a top end of said pier shaft, wherein a top portion of said pier cap stabilizer shaft extends above a bottom surface of said footer, wherein the top portion of said pier cap stabilizer shaft is mounted to said footer;

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          a shelf mounted on a side of said pier cap stabilizer with gussets; and

          a screw jack positioned on a top surface of said shelf that adjustably extends between said shelf and the bottom surface of said footer.

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2) The pier of claim 1, wherein said pier includes a helix mounted to a bottom end of said pier.

3) The pier of claim 1, further comprising a flexible bag containing structural material, said flexible bag positioned on a top surface of said screw jack under the bottom surface of said footer.

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4) The pier of claim 1, wherein said pier cap stabilizer shaft is comprised of:

a shaft that extends over said pier;

a tube that slides over said shaft;

5 a shelf mounted to the side of said tube; and

a pin that extends through said shaft and said tube, thereby locking said shaft to  
said tube.

10 5) The pier of claim 1, further comprising a plate that secures the top portion of said pier  
cap stabilizer shaft to said footer.

6) The pier of claim 1, further comprising a pin that extends through said pier cap  
stabilizer shaft, said pin rests against a top surface of said pier.

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7) The pier of claim 1, wherein a pier cap is mounted to a bottom end of said pier.

8) A structure for supporting the weight of a building, comprising:

20 a footer supporting a structure;

a pier extending through a notch formed in said footer down to a weight bearing  
layer of earth;

a rotatable shelf mounted to said pier, wherein said shelf extends away from said footer when said shelf is positioned on said pier and is rotated into position under a bottom surface of said footer;

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a screw jack assembly positioned on said shelf and adjustably extending up to the bottom surface of said footer; and

a pin securing a top portion of said pier to said footer above the bottom surface of  
10 said footer.

9) The structure of claim 8, wherein said pier is positioned vertically with respect to said footer.

15 10) The structure of claim 9, wherein said pier further comprising a pier cap mounted to a bottom end of said pier.

11) The structure of claim 8, wherein said pier further comprising a helix mounted to a bottom end of said pier.

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12) The structure of claim 8, wherein said shelf is mounted to a tube that extends over said pier.

13) The structure of claim 12, further comprising a pin that extends through said tube securing said tube to said pier.

14) The structure of claim 13, further comprising a shaft that extends over said pier, said  
5 tube extends over said shaft, wherein a pin extends through said tube and said shaft, thereby securing said tube to said shaft.

15) A pier for supporting a footer, comprising:

10 a pier:

a shelf rotatably mounted to said pier, wherein said shelf extends above and away from said footer when it is first placed over said pier, wherein said shelf extends below a bottom surface of said footer when rotated in position; and

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a screw jack assembly extending from a top surface of said shelf up against the bottom surface of said footer.

16) The pier of claim 15, wherein said pier has a helix mounted at a bottom end.

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17) The pier of claim 15, wherein said pier is positioned vertically next to said footer.

18) The pier of claim 15, further comprising a pier cap stabilizer shaft mounted to said pier, wherein said shelf is mounted to said pier.

19) The pier of claim 18, further comprising a pin mounting a top portion of said pier to  
5 said footer.

20) The pier of claim 18, further comprising a screw jack guide to locate the placement of said screw jack assembly on said shelf.